



BRUHAT BANGALORE MAHANAGARA PALIKE

Name of the Work : Improvements to Roads, drains, footpath and park in ward no.08, Byatarayanapura Division (Package includes 11 Works of Rs 1010 lakhs)

BYATARAYANAPURA DIVISION

9th PART BILL

TEST REPORTS



TEJUS CONSULTANTS
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No. TC / BBMP / BYT-PMC / 394 / 18-19

To
The Executive Engineer
Byatarayanapura Divison
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Date:

Dear Sir

Sub: 9th RA bill for the work of Improvements to Roads, Drains, Footpath and Park in ward no.08, Bytarayanapura Division (Package includes 11 Works of Rs 1010 lakhs)

In reference to the above subject, this is to bring to your kind notice that we have scrutinized the 9th RA bill submitted by Sri.Pramodh M/s Karthik Enterprises, No. 123, Aiswaraya, 3rd Cross, Ramannaa Garden, Vidyaranyapura, Bangalore - 97, towards the above said work and arrived at an amount of Rs. 454269 (Rupees Four Lakh Fifty Four Thousand Two Hundred Sixty Nine Only). The work has been completed satisfactorily.

This is for your kind information.

Thank you and assuring you the best of our Services at all the times

For Tejus Consultants
(Nischal M)




Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

PRECAST SLAB (CORE) TEST REPORT											
Client	:	Bruhat Bangalore Mahanagara Palike									
Contractor	:	M/s Karthik Enterprises									
Name of Work	:	Improvements to Road, Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.									
No. of Sample Tested	:	3									
Date of Testing	:	09-09-19									
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.									
Grade of Concrete	:	M ₂₀ , 100mm thick									
Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	90.00	0.474	2682.29	1.80	0.960	38.34	19.53	21.09	20.24	25.31
2	50.00	90.00	0.484	2738.88	1.80	0.960	38.55	19.63	21.20	20.36	25.44
3	50.00	90.00	0.445	2518.18	1.80	0.960	38.41	19.56	21.13	20.28	25.35

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.



Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



KERB STONE (CORE) TEST REPORT

Work	:	Improvements to Road, Drain and Footpath in Kodigehalli Main Road and Abutting Cross Road in Ward No.8, Kodigehalli.
Authority	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s Karthik Enterprises
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Sample Tested	:	3
Date of Testing	:	09-09-2019
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M ₁₅

No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
	50.00	85.00	0.381	2282.84	1.70	0.960	28.45	14.56	15.72	15.10	18.87
	50.00	85.00	0.378	2264.87	1.70	0.960	28.55	14.65	15.82	15.19	18.99
	50.00	85.00	0.379	2270.86	1.70	0.960	28.41	14.48	15.64	15.01	18.77

report shall not be reproduced, except in full, without the written approval of the laboratory.
 results indicated above are based on the tests carried out on the samples received in the laboratory.
 Query regarding the report must be reported within 90 days from the date of testing.



Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.


 Consultant's Representative



TEJUS
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Test Report on Cement

Project	Improvements to Road, Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.Pramodh M/s Karthik Enterprises,
Sample ID	Cement
Date of Sample Tested	13-09-2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	348 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to Road, Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)		Proposed Use	concrete	
Location/Source	At Site/Plant		Date of Sampling	13-09-2019	
Period of Soaking	24 hours		13-09-2019	13-09-2019	
Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	650	681	660	
B	Weight of oven - dry sample gm.	643	674	650	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1701	1690	
E	Bulk specific gravity $\frac{B}{(C + A - D)}$	2.646	2.643	2.653	2.647
G	Absorption (%) $\frac{(A - B) * 100}{B}$	1.089	1.039	1.538	1.222

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 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.



TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Road, Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Consultants	Tejus Consultants, Bangalore
Contractor	M/s Karthik Enterprises

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete		
Sample Location	At Site/Plant	Date of Sampling	13-09-2019		
		Date of Testing	13-09-2019		
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	207	207	6.90	93.10	90 - 100
2.36 mm	315	522	17.40	82.60	75 - 100
1.18 mm	450	972	32.40	67.60	55 - 90
0.600 mm	490	1462	48.73	51.27	35 - 59
0.300 mm	750	2212	73.73	26.27	8-30
0.150 mm	650	2862	95.40	4.60	0 - 10
Pan	138	3000			-

Remarks :

✓ Satisfactory / Not Satisfactory

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GP

leg
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yalahanka Zone, B.B.M.P.,
Bangalore

leg
Authorised Signatory



TEJUS
CONSULTANTS

TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements to Road, Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s Karthik Enterprises				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	20 mm down size		Proposed Use	Concrete	
Sample Location	Plant/At site		Date of Sampling	13-09-2019	
			Date of Testing	13-09-2019	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	265	265	2.65	97.35	95 - 100
10.00 mm	4840	5105	51.05	48.95	25 - 55
4.75 mm	4225	9330	93.30	6.70	0 - 10
Pan	670	10000			
Remarks : ☒ Satisfactory / Not Satisfactory					
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GP

Key
Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements to Road, Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.				
Consultants	TEJUS CONSULTANTS				
Contractor	M/s Karthik Enterprises				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	12.5 mm down size		Proposed Use	CONCRETE	
Sample Location	At Site/Plant		Date of Sampling	13-09-2019	
			Date of Testing	13-09-2019	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	535	535	5.35	94.65	90-100
10.0	4692	5227	52.27	47.73	40-85
4.75	4000	9227	92.27	7.73	0-10
Pan	773	10000			
Remarks : ✓ Satisfactory / Not Satisfactory					
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Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to Road, Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm ²	KN	N/mm ²	N/mm ²
1	13-09-2019	20-09-2019	7 days	8.122	22500	220	9.78	9.78
2	13-09-2019	20-09-2019	7 days	8.146	22500	218	9.69	
3	13-09-2019	20-09-2019	7 days	8.142	22500	222	9.87	

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G.P.S.

Devg
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to Road, Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm ²	KN	N/mm ²	N/mm ²
1	13-09-2019	11-10-2019	28 days	8.136	22500	340	15.11	15.16
2	13-09-2019	11-10-2019	28 days	8.142	22500	342	15.20	
3	13-09-2019	11-10-2019	28 days	8.148	22500	341	15.16	

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Telahanka Zone, B.B.M.P.,
Bangalore.

